SEQUENCE LISTING

<110> van den Boom, Dirk

Böcker, Sebastian

<120> FRAGMENTATION-BASED METHODS AND SYSTEMS
FOR SEQUENCE VARIATION DETECTION AND DISCOVERY

<130> 24736-2073

<140> 10/723,365
<141> 2003-11-26

<150> US 60/429,895
<151> 2002-11-27

<160> 85

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<213> Artificial Sequence

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<223> Renin cleavage site

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<223> Factor Xa cleavage site

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid Except Pro or Arg

<400> 2
Ile Glu Gly Arg Xaa
1 5

<210> 3
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Factor Xa cleavage site

<220>
<221> VARIANT
<222> 5
<223> Xaa = Any Amino Acid Except Pro or Arg

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<223> Factor Xa cleavage site

<220>
<221> VARIANT
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<223> Xaa = Any Amino Acid Except Pro or Arg

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<220>
<223> Collagenase cleavage site

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<221> VARIANT
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<223> Xaa = Any Amino Acid

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<210> 6
<211> 49
<212> DNA
<213> Artificial Sequence

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<223> Forward primer for base-specific cleavage

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<210> 7
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for base-specific cleavage

<400> 7
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<210> 8
<211> 340

<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon for base-specific cleavage

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<213> Artificial Sequence

<220>
<223> Forward primer for partial cleavage

<220>
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<223> Biotinylated

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<210> 10
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<223> Reverse primer for partial cleavage

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<210> 11
<211> 117
<212> DNA
<213> Artificial Sequence

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<212> DNA
<213> Artificial Sequence

<220>
<223> Reference sequence

<220>
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<223> n = C or A

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<211> 583
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<211> 483
<212> DNA
<213> Mycobacterium abscessus

<300>
<308> EMBL Accession No. AJ536038
<309> 2003-01-03

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agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
aaa 483

<210> 15
<211> 495
<212> DNA
<213> Mycobacterium avium

<300>
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<309> 2003-01-03

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gatgggcccg cggcctatca gcttgttggt ggggtgacgg cctaccaagg cgacgacggg 180
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gcgttgttcg tgaaa 495

<210> 16
<211> 495
<212> DNA
<213> Mycobacterium celatum

<300>
<308> EMBL Accession No. AJ536040
<309> 2003-01-03

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gcgttgttcg tgaaa 495

<210> 17
<211> 483
<212> DNA
<213> Mycobacterium fortuitum

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<309> 2003-01-03

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gatgggcccg cggcctatca gcttgttggt ggggtaatgg cctaccaagg cgacgacggg 180
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agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
aaa 483

<210> 18
<211> 495
<212> DNA
<213> Mycobacterium gordonae

<300>
<308> EMBL Accession No. AJ536042
<309> 2003-01-03

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gcgttgttcg tgaaa 495

<210> 19
<211> 495

<212> DNA
<213> Mycobacterium intracellulare

<300>
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<309> 2003-01-03

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cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 20
<211> 495
<212> DNA
<213> Mycobacterium kansasii

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<309> 2003-01-03

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gatgggcccg cggcctatca gcttgttggt ggggtgacgg cctaccaagg cgacgacggg 180
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acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 21
<211> 495
<212> DNA
<213> Mycobacterium marinum

<300>
<308> EMBL Accession No. AJ536032
<309> 2003-01-03

<400> 21
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cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
gcgttgttcg tgaaa 495

<210> 22
<211> 492
<212> DNA
<213> Mycobacterium scrofulaceum

<300>
<308> EMBL Accession No. AJ536034

<309> 2003-01-03

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<211> 485
<212> DNA
<213> Mycobacterium smegmatis

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<309> 2003-01-03

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<210> 24
<211> 497
<212> DNA
<213> Mycobacterium tuberculosis

<300>
<308> EMBL Accession No. AJ536031
<309> 2003-01-03

<400> 24
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<212> DNA
<213> Mycobacterium xenopi

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<212> DNA
<213> Mycobacterium paraffinicum

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<210> 27
<211> 483
<212> DNA
<213> Mycobacterium interjectum

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<210> 28
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<212> DNA
<213> Mycobacterium aurum

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<211> 1542
<212> DNA
<213> Escherichia coli

<300>
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caaggtaacc gtaggggaac ctgcggttgg atcacctcct ta 1542

<210> 30
<211> 340
<212> DNA
<213> Bordetella avium

<400> 30
agagtttgat cctggctcag attgaacgct ggcgggatgc tttacacatg caagtcgaac 60
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gcctagtagc gggggataac tacgcgaaag cgtagctaat accgcatacg ccctacgggg 180
gaaagcgggg gaccttcggg cctcgcacta ttagagcggc cgatatcgga ttagctagtt 240
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cactgggact gagacacggc ccagactcct acgggaggca 340

<210> 31
<211> 339
<212> DNA
<213> Bordetella trematum

<400> 31
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gcccagtagc gggggataac tacgcgaaag cgtggctaat accgcatacg ccctacgggg 180
aaagcggggg accttcgggc ctcgcactat tggagcggcc gatatcggat tagctagttg 240
gtggggtaac ggctcaccaa ggcgacgatc cgtagctggt ttgagaggac gaccagccac 300
actgggactg agacacggcc cagactccta cgggaggca 339

<210> 32
<211> 1496
<212> DNA
<213> Bordetella petrii

<220>
<221> misc_feature
<222> 821
<223> n = A,T,C or G

<300>

<308> GenBank Accession No. AJ249861
<309> 2003-01-03

<400> 32
cgctagcggg atgctttaca catgcaagtc gaacggcagc gcggacttcg gtctggcggc 60
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aaagcttagc taataccgca tacgccctac gggggaaagc gggggacctt cgggcctcgc 180
actattggag cggccgatat cggattagct agttggtggg gtaaaggcct accaaggcga 240
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ccgcgtgtgc gatgaaggcc ttcgggttgt aaagcacttt tggcaggaaa gaaacggctc 420
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<210> 33
<211> 363
<212> DNA
<213> Bordetella strain SHA-1

<400> 33
agagtttgat cctggctcag gacgaacgct ggcggcgtgc ctaacacatg caagtcgaac 60
gcgagtgtct tttttcgcaa gagagcagac acttgagtgg cgaacgggtg agtaacacgt 120
gagcgactca ccttccggtg ggggataact gtccgaaagg gcggctaata cctcgtatgc 180
tccctgaccg ccgggtcagt gaggaaagtg ggcttcgtaa gaagctcatg ccagaagaga 240
ggctcgcgcc ccatcagcta gttggcgagg taacggctca ccaaggcaat gacgggtagc 300
tggtctgaga ggatggtcag ccactctggg actgagacac ggcccagact cctacgggag 360
gca 363

<210> 34
<211> 363
<212> DNA
<213> Bordetella strain SHA-110

<400> 34
agagtttgat cctggctcag gacgaacgct ggcggcgtgc ctaacacatg caagtcgaac 60
gcgagtgtct tttttcgtaa gaaaggtgac acttgagtgg cgaacgggtg agtaacacgt 120
gagtaactca ccttccggtg ggggataact gtccgaaagg gtggctaata ccccatatgc 180
tccctgaccg ccgggtcagt gagaaaagtg ggcttcgtaa gaagctcaca ccagaagaga 240
ggctcgcgcc ccatcagctg gttggcgagg taatggctca ccaaggcaat gacgggtagc 300
tggtctgaga ggatggtcag ccacactggg actgagacac ggcccagact cctacgggag 360
gca 363

<210> 35
<211> 343
<212> DNA
<213> Bordetella strain B1-10

<400> 35
agagtttgat catggctcag gatgaacgct ggcggcgtgc ttaatacatg caagtcgaac 60

ggagggaggt agtaatactt tccttagtgg cgaacgggtg agaaacgcgt tggtgacctg 120
ccccgaagag cgggacaaca gaccgaaagg tttgctaata ccgcatgagc tcttgctggc 180
tagagtggca agaggaaagg ccgaaaggcg ctttgggagg ggcctgcgtc ccatcagcta 240
gttggcgggg taacagccca ccaaggcgat gacgggtagg ggacctgaga gggtgacccc 300
ccacaatgga actgaaacac ggtccataca cctacgggtg gca 343

<210> 36
<211> 342
<212> DNA
<213> Bordetella strain B1-12

<400> 36
agagtttgat catggctcag gatgaacgct ggcggcgtgc ctaatacatg caagtcgaac 60
gggagatgta gcgatatgtc tccagtggcg aacgggtgag taacgcgttg gtgacctgcc 120
ccgaagagcg ggataacaga ccgaaaggac tgctaatacc gcatgagctc tcggcagtta 180
gaggggccga gaggaaaggc cgaaaggcgc tttgggaggg gcctgcgtcc catcagctag 240
ttggcgaggt aagagctcac caaggcgatg acgggtaggg gacctgagag ggtgaccccc 300
cacaatggaa ctgaaacacg gtccatacac ctacgggtgg ca 342

<210> 37
<211> 342
<212> DNA
<213> Bordetella strain B6-52

<400> 37
agagtttgat catggctcag attgaacgct ggcggcatgc tttacacatg caagtcgaac 60
ggcagcacgg gcttcggcct ggtggcgagt ggcgaacggg tgagtaatgc atcggaacgt 120
gcccatttgt gggggataac gcggcgaaag tcgcgctaat accgcatacg ccctgagggg 180
gaaagcgggg gattcttcgg agcctcgcgc aattggagcg gccgatgtca gattagctag 240
ttggtagggt aaaggcctac caaggcgacg atctgtagcg ggtctgagag gatgatccgc 300
cacactggga ctgagacacg gcccagactc ctacgggagg ca 342

<210> 38
<211> 342
<212> DNA
<213> Bordetella strain B6-60

<400> 38
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gcccatttgt gggggataac gcggcgaaag tcgcgctaat accgcatacg ccctgagggg 180
gaaagcgggg gattcttcgg aacctcgcgc aattggagcg gccgatgtca gattagctag 240
ttggtagggt aaaggcctac caaggcgacg atctgtagcg ggtctgagag gatgatccgc 300
cacactggga ctgagacacg gcccagactc ctacgggagg ca 342

<210> 39
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer TPU1

<400> 39
agagtttgat cmtggctcag 20

<210> 40
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer RTU8

<400> 40

aaggaggtga tccakccrca 20

<210> 41
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer Myko109-T7

<400> 41
gtaatacgac tcactatagg gacgggtgag taacacgt 38

<210> 42
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer R259-SP6

<400> 42
atttaggtga cactatagaa tttcacgaac aacgcgacaa 40

<210> 43
<211> 418
<212> DNA
<213> Artificial Sequence

<220>
<223> IGF2/H19 Amplicon

<400> 43
accatgcctg ctgctccctg cctgccagcg ccctgcacat actttgcaca tggctggggg 60
ccagctgcgg gtccctgggg actcggatgg cacagagggc cccttcctgc caccatcacg 120
gctcagacct cacgttcctg gagagtaggg gtggggtgct gaggggcaga gggaagtgcc 180
gcaaaccccc tggtgggcgc ggtgccagcc ccccaggccg attcccatcc agttgaccga 240
gcttgtgctg gtcaccgcgg tttccgcagg acagagtccc cacagccgct gggcaccccg 300
gtcccattcg cggccacttt cctgtctgaa gaccgcatgt tgccgggctg tgcttacggc 360
tcgcgggcgc actctactga caagcggtgg gcggcctcac agactctccc aggcccgc 418

<210> 44
<211> 269
<212> DNA
<213> Artificial Sequence

<220>
<223> K-Ras Amplicon

<400> 44
cgtccacaaa atgattctga attagctgta tcgtcaaggc actcttgcct acgccaccag 60
ctccaactac cacaagttta tattcagtca ttttcagcag gccttataat aaaaataatg 120
aaaatgtgac tatattagaa catgtcacac ataaggttaa tacactatca aatactccac 180
cagtaccttt taatacaaac tcacctttat atgaaaaatt atttcaaaat accttacaaa 240
attcaatcat gaaaattcca gttgactgc 269

<210> 45
<211> 428
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 1

<220>

<221> misc_feature
<222> 123
<223> n = T or C

<400> 45
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gagtacagca gttataacta taggtgaggc tggaaagatg gcttcccata gatctgttcc 120
canagggctc ttgaaaacag gccagctgcc cagggcattt ggggactgaa tgtccacctt 180
attctcccag gggctttgac attgggaacc atttttgtga gtgggtttat gattatactc 240
acgaggaatg gcctttctac aaagcaaggc ccacagacta ccccactcaa gaacagcagg 300
tatgtgggcc agaggctggg gagcaggacc catcctgtga ggaaggaggg aggtggagtc 360
tggaaggaat ggccggaaag gatgttacct gggaaatact ccacagtctc cccaattcct 420
gactcttg 428

<210> 46
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2

<220>
<221> misc_feature
<222> 174, 179
<223> n = T or G

<220>
<221> misc_feature
<222> 317
<223> n = C or T

<400> 46
cccactactc tgccttcctg ttcagtaact cttacttttg cctgaagtaa cagcatcttc 60
tacttctcca tctagagatt tttgtgtgtg tgccatcaag gttagcaaac tttatacgta 120
gcctaacact taaaaaatgc actcattatc ttaaacctaa taaattccag agtntattnt 180
ggttctcctc tgttgccctt cctaaaaaat gagctgaaga tgacagtatt tttctttaca 240
tgcttggtta tgacttttaa agttttattt aaataaatgt tgaagctcaa gtttaaagaa 300
gcgttgcaga ggcccanggt ctcctgggtc ccggccacct gtccatattc cacatttgct 360
gactgtgctc cctgcactcc actcaagttg agagttcaaa tagtcttgaa ggggaatcag 420
cttcaggat 429

<210> 47
<211> 465
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 3

<220>
<221> misc_feature
<222> 285, 286
<223> n = G or A

<400> 47
ggaagtggtt ttggaggtga taactcacta tttttaggct agaacacaaa gaacaattag 60
tgaatttaag taagaaagtg gaagttatca actaatgtgc tattaaaaat attattttta 120
gtaagaggca tcctaggagt tacagaatgt ctacattcta cagaaatgtc ttcctctcaa 180
gtcttcagag agcaaaggtc acagctacct aaagtgtttc cacttcaagc acagattgta 240
tgcctgaaga ctacatacct tgcattatca accagttcag caagnncacc aaacaagaat 300
tcgtgagtgg ttctgaaatg ataaatacta aaagtcagca aaagaattat tgaagttata 360
attcctaata aaaagccatg gttataaaat atttaagttt tttgaaaaaa atcttaaaac 420
caccatttgc attgttttta tactactcaa ggctttccag agctc 465

<210> 48
<211> 426
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 4

<220>
<221> misc_feature
<222> 131
<223> n = A or G

<400> 48
tatgataggg aagatgcggc catcactggg atattttcaa atcccaagga catcagagtg 60
aagtgtcagt tgtcagatga ttttaaaagt tatgtcttca gagaaaaaaa gattcatttt 120
ctcattttaa nccaattaaa tattctgagt gagactaatc actcatttgc ctacgacctt 180
ttagaaaagt tgttttgttg aaatactgta cgtacgctta atctaaattt gcattgacta 240
tgttttagtg tatttataaa tggtgaactc agtttctgaa attaaacttc ttatttgcaa 300
ttttctagtg ctggcagaca ctggcttttt atttttagga taagaaaaca ggcatattct 360
ttgtggtcca ttatctagag cccatacttg ggcagcattt gaaatttcac cttaacccca 420
gacagg 426

<210> 49
<211> 533
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 5

<220>
<221> misc_feature
<222> 47, 50, 51, 52
<223> n = A or G

<220>
<221> misc_feature
<222> 111, 135, 185, 359
<223> n = T or C

<220>
<221> misc_feature
<222> 198
<223> n = T or G

<220>
<221> misc_feature
<222> 253
<223> n = C or A

<400> 49
tgcacagggt ttgatctctg agatgtttta tactctctgg cttgganaan nnacagtcct 60
gtagtatcaa gaccagacct tgtgtcccca gcccaaggct gccctgggcc nagggacagt 120
atttggagac ttcgntggca gttttgcgtt ggaatcacct ggtgcctccc tgtacgtcca 180
cccancctgt gcccagancc ccttcgcaag caccatatgc tgttagatcc tcgagcagcc 240
ttgtgggaca gcnaccctgg ggctggtatc accatttatg taagaaaaaa aaggaagtgc 300
tggcccaggg tcccacagcc agcaagttgg agctgcactg cccaagcagg tcctttagnc 360
agctctctgt tgtcccccaa gcccctcagc cccccaggca gctctaaggg ctcagctgct 420
gcaggattcc ttagagaagc tgaagggttt gggtcctcag ctcctggccg gggcaagtct 480
ggccaagcag catggcagcg atgaagtcca catgatcgaa gggtggatgc tta 533

<210> 50
<211> 422
<212> DNA

<213> Artificial Sequence

<220>
<223> Amplicon 6

<220>
<221> misc_feature
<222> 131
<223> n = C or G

<400> 50
caaggcttga ctgaaggacc tcatccagag tcactatcag agctcgctcc agcactctcc 60
ttcatggagc cccagggtca gcagtggaga gggtcagagc acccccacaa cccccacagc 120
gagatgacct nggctcgtct tgcctctgcc accagagctg tgactgtggg caagatattt 180
tacagcagga ccagtttctt gtccgaaggc agggctatta acaggaccta actcaggata 240
cttgtgtgga taaaatcatg tgtgaagagc ttttagggcc ttgcttctca aagaggggcc 300
ccaggccatc agcacacctg gagtgtgcag ggggaagctc tcagccccac cccagccctc 360
tttacaagac ccccgcgtgg cacctgtggc gtggcacctg tgtgcactcg tgttttcaaa 420
gc 422

<210> 51
<211> 411
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 7

<220>
<221> misc_feature
<222> 228, 230, 235, 236, 240, 243, 245
<223> n = A or T

<400> 51
atccctctgt ctctccacca ggaactagaa ttttgtgtat cactgcgctt atttttttct 60
tttagtttac cacatgtgta tgtatctata agtaatataa cgatctgttt tgcttctcta 120
tattgtgcca tatgtcgttt ttagcaactt gcttttagct gacgttctgt tttcaagatt 180
catccatgtt gctgcataaa cctaacattc acttactgtt gctggtgnan aacannccan 240
cangngagca cagacatttg ggttgtttcc aagacatgta tcaatggcaa aaattaagat 300
gtctgacaaa accaagagtt ggagaggatg tggatggctt ggaattttat ctgctccttt 360
acacccactc tggaaaaact gtacaaacaa ttctgcaagg atttttccag a 411

<210> 52
<211> 445
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 8

<220>
<221> misc_feature
<222> 84
<223> n = C or G

<220>
<221> misc_feature
<222> 265, 269
<223> n = T or C

<400> 52
tagtgaaaag ggcacacagc tgtaactcca gacatctccc tattgcatgg atctgcactt 60
gactggcagc ctagacagaa ggantgctat ttgtcttttc tggctgacag ctgagcagga 120
ccagcgctgg ctgcaaccaa ggagcattgc ttcgcttgtc atacttctgc ttccaaacag 180
ccctcttttg tttgtgctgt gaagttccca taccgtctgc catctcagca tctcctctgg 240

ctgaacctcc ttcacagttt gtacnctang ttaaattagc tgttcaattc ctccaggaga 300
aaggactgtg gctattagtt cttagaagcc ccaaagagcc cagtatgggc ctaggcttgc 360
actaggatcc catgaagcta gctggctggc tgggtgggtg gatcagaccg gcaaaagcac 420
tgtaggagct tgaaacccag cagac 445

<210> 53
<211> 425
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 9

<220>
<221> misc_feature
<222> 136
<223> n = A or C

<220>
<221> misc_feature
<222> 385
<223> n = G or A

<400> 53
cctctccttc tctgcgtgac cttgggctgg gagccaccca ggaaatgttc tcgagaaatg 60
aggacttcaa ttccgaggtg gggagtgtca tctcctctct catgcctcag tttcccaatt 120
tatagacaag gtgggnggag ccttcttgag gccccttgg gctctgacat ttcatgaacc 180
ggtaacaccc ctcccactca gcatgcacct ggatgcccaa ggcgggtgtc tgggagaaag 240
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gccct 425

<210> 54
<211> 424
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 10

<220>
<221> misc_feature
<222> 76
<223> n = C or G

<400> 54
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agctgtggtg tgaccntggg caatccctgg ggcctctcac tcccatgctg aggtgggtca 120
gacccacagc gcctgacctc aggctccctc tgggctgggc ctggtcccag gtgctgggat 180
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atatttctga caacctgtaa ctctgggcag gccgactgca gctgacccca gctactgcag 360
aaaatgaagc ccagacaaag gagagggcca cactgctccc aagtggtgga gctgttgttc 420
caat 424

<210> 55
<211> 393
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.1

<220>

<221> misc_feature
<222> 157
<223> n = T or A

<400> 55
agatgcccct gacactgact caaggctcag agaaggcggg cacctgccta aggccacccg 60
gtaggcccaa ggtgtatcaa gactccatcc caggacctct gggccctggg ctgcaggcct 120
gggccctacc cactgattga ttggacctgt gcctccncca ggtgatggtc aagtggactt 180
tgaggagttt gtgacccttc tgggacccaa actctccacc tcagggatcc cagagaagtt 240
ccatggcacc gactttgata ctgtcttctg gaaggtatcc cctggctagt tgggacccag 300
ggctgtgcac actgtggagt tctgttctgg agccagtgaa tggctgggcc cacactgtaa 360
agggggggatg accacctcag gcttgtgtcc act 393

<210> 56
<211> 499
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.2

<220>
<221> misc_feature
<222> 103
<223> n = T or G

<400> 56
gaacccatgt cctccacatc cacaagtctc caaagggttg gggattcctt gtgtgagctc 60
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cagtatgaaa atgaggagac ttacagggtg cgaacattcc agataggtac aggggagaaa 180
ctggtgaagg ccctggttcc agcctttctg ggtagaacca tctcctccta tgccacctgt 240
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agggttctta tgggaactaa atggcctaag gcatggcaag caggtcccaa gtgcctggct 480
ctgtgaaaag gctgctgag 499

<210> 57
<211> 399
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.3

<220>
<221> misc_feature
<222> 31
<223> n = C or G

<400> 57
ccaggacagc tgaggacatt ccagaccctc ncatctcctt cctggagcct cacaggcccc 60
cagagcccct gaaagggcag aaattggtca gctcagcagc cactcacact ggatcttata 120
gaggttgctg gtttccttct tggacagcag ggtggagtgg gcatccttcc ggggatccac 180
tttgtgaaca aagagggagc ggaaccagct gccttcattg tccttggaat agaaactgca 240
ggacagagga gttgaggggg acgcgcggag gttgggggag ccccagcaat tccatccact 300
tggatgtcct gctcccctag accagtgacc cacatttctg ggaacagggc cacggagtcc 360
tgtggcagct ccagactgtg aaatgctatt ggagccagc 399

<210> 58
<211> 365
<212> DNA
<213> Artificial Sequence

<220>

<223> Amplicon 2.4

<220>
<221> misc_feature
<222> 211
<223> n = T or C

<400> 58
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gggtagccac ctgagaatcg ccacaggtgc actgttgggg gtgagaggta taggtcagtg 180
agctgctggg acccccagca gatgacctcc ncaaggttgg ctaagtggtg gggacggggg 240
aggcggggtg gcctggttcc ctgtagcagc aagactccct gagttccctc tgccttggtg 300
gaagaccatg ctggggaggg gatgacccta gacacaagtc taggagacct ggatttgagc 360
tccag 365

<210> 59
<211> 390
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.5

<220>
<221> misc_feature
<222> 77
<223> n = A or G

<400> 59
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aaatcctctg ggctccntga ctaaagctga gggaggaagt agccatcagg gtccctttgg 120
tgccgtctgg tctcggcact ccttggagct gatcactctc ttgctccctg cctaggcccc 180
tctccagaag gcccgatgcc cctgggtggg ggcgaggacg aggatgcaga ggaggcagta 240
gagcttcctg aggcctcggc ccccaaggcc gctctggagc ccaaggagtc caggagcccg 300
cagcaggtgg gacccacatg gaggcctgca gaacctgagc tgtgaactgg caaccctggc 360
tctggggccg agtcaccttg cacaaggagg 390

<210> 60
<211> 396
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.6

<220>
<221> misc_feature
<222> 131
<223> n = A or G

<220>
<221> misc_feature
<222> 239
<223> n = G or C

<220>
<221> misc_feature
<222> 254
<223> n = C or A

<220>
<221> misc_feature
<222> 283
<223> n = A or C

<400> 60
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gttgattttg aagcagagtt agcttgtcac ctgcctccct ttcccgggac aacagaagct 120
gacctctttg ntctcttgcg cagatgatga gtctccgggg ctctatgggt ttctgaatgt 180
catcgtccac tcagccactg gatttaagca gagttcaagt aagtactggt ttggggagna 240
gggttgcagc ggcngagcca gggtctccac ccaggaagga ctnatcgggc agggtgtggg 300
gaaacaggga ggttgttcag atgaccacgg gacacctttg accctggccg ctgtggagtg 360
tttgtgctgg ttgatgcctt ctgggtgtgg aattgt 396

<210> 61
<211> 368
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.7

<220>
<221> misc_feature
<222> 100
<223> n = A or G

<400> 61
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agtggttctg aaatgataaa tactaaaagt cagcaaaaga attattgaag ttataattcc 180
taataaaaag ccatggttat aaaatattta agtttttga aaaaaatctt aaaaccacca 240
tttgcattgt ttttatacta ctcaaggctt tccagagctc cccaactccc ctcaattgtt 300
aatctttaac aagtcctgcc atctattcag aaatgattat tcttcctatt ttgagttggg 360
aaacccac 368

<210> 62
<211> 451
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.8

<220>
<221> misc_feature
<222> 228
<223> n = A or G

<220>
<221> misc_feature
<222> 341
<223> n = G or T

<400> 62
gatgtacacc actccctgcc tcccgcttta gaaatgaaga aaccatggct cagaggggtg 60
tggaggctca cacagcatca cagggcccga agtggaggag ctgggatatg gacacaggcc 120
cacctgcctt cagaccagac ccctgtgccc ccagccgccc caccacccac agaccccaga 180
gggaggacgt caggcgtcca ggctggcacc tttagcttgg gcaggccncc gcggatggca 240
tctgcaatgg caactgcacc cttggagcgc accaggcagt ccccaaaatt aatcacctcc 300
acctgccgca aggtcttcaa ggtctgtgag ggggaagcaa nggtccagag tgagggtgca 360
gaccacaccc cagccctcag caagccccgg gggccccaca cggtcacatc ccaagccagc 420
caccacacac tgtcctcctc tgcaagtcac c 451

<210> 63
<211> 790
<212> DNA
<213> Artificial Sequence

<220>

<223> Amplicon 2.9

<220>
<221> misc_feature
<222> 300
<223> n = C or G

<220>
<221> misc_feature
<222> 696, 741
<223> n = C or T

<220>
<221> misc_feature
<222> 771
<223> n = A or T

<400> 63
ttagggaaga agggccaaag cactccttgt agcactcacc cctacccttc caagccaccc 60
cagccggtgt aggtacctgt cttcagcagc atcgctctgg actcagcttc cgaggacctg 120
accagatctg gtctgcgtgt atcagctgta tgtgttgggc tctggaagct aagaaacgtc 180
tgaaaagcac tggggtcacg gctgcctggc tagctcggcc gccctcaacc ttaggcgtgg 240
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gcagccactg gcttaaggtc accaagaaag agcggagggg cggggctgcg gccaggctcc 480
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acctgataag tccgaagcgt tccagtgagg gcggggcctc acgaaggcaa cccttcgcgc 660
aacctatcag aatccccccc agcaacgctg tgcccngccc atatgggtcc ggcctcccag 720
cctccctaag cccttcccca ntgggctccc gccctgcgtg ctagcgaggc nggcattggc 780
agaacggact 790

<210> 64
<211> 496
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.10

<220>
<221> misc_feature
<222> 378
<223> n = T or G

<400> 64
cttgtgaccc tccaaggaaa ggaaccagca ctcatcaagg tcccactggg caccaggtgc 60
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tcagccccca ccccgccccc attttacaga aggaaaacac aaggctcagg aagtcaggtg 180
ccacccaagg aaggtcctac ggctcaggga ggagcccagg tccaggtcct gggacctggg 240
tggtgggggc gtgcagagcc tgagctggga cccagtgctg aggttcagcg gggcccgagc 300
tgcagcacca ctgccccagg ctgaccgtac tgggggcccg gctaacctct gcctcctttc 360
cttctacctt cccagggnaa tgatgcggaa gagcctaagg gggtcaccag cgaaggtagt 420
agtccccgcc cctgcccgcc ctctcctttc cccagggctc tggcctcagg gcctaccctc 480
accctctccc cttcct 496

<210> 65
<211> 395
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.11

<220>
<221> misc_feature
<222> 137
<223> n = A or G

<400> 65
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tcaaagcccc tgggagaata aggtggacat tcagtcccca aatgccctgg gcagctggcc 120
tgttttcaag agccctntgg gaacagatct atgggaagcc atctttccag cctcacctat 180
agttataact gctgtactcg aagtccacca gcatgaggct gtcagcattt tctggctctg 240
agagcagcaa gatgttccct gggggaatgg ggtgaggttc tgctcactcc agagccctct 300
ggctcttcca tcttgggtta ggagactcag atgccttctc ctaccttcct ggatgtcatt 360
gtggcagaag acgactggcg atggggtaga ctcta 395

<210> 66
<211> 353
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.12

<220>
<221> misc_feature
<222> 249
<223> n = A or G

<400> 66
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tggcccacat acctgctgtt cttgagtggg gtagtctgtg ggccttgctt tgtagaaagg 120
ccattcctcg tgagtataat cataaaccca ctcacaaaaa tggttcccaa tgtcaaagcc 180
cctgggagaa taaggtggac attcagtccc caaatgccct gggcagctgg cctgttttca 240
agagccctnt gggaacagat ctatgggaag ccatctttcc agcctcacct atagttataa 300
ctgctgtact cgaagtccac cagcatgagg ctgtcagcat tttctggctc tga 353

<210> 67
<211> 598
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.13

<220>
<221> misc_feature
<222> 80, 206, 295, 373, 400, 479
<223> n = A or G

<220>
<221> misc_feature
<222> 315, 317, 318
<223> n = A or T

<400> 67
ccatctgagc tatttcccca cctctctcta cggtttaagg gcccagcagg agggagggag 60
caatcagact caagcctggn tgcaaatccc ggctctacca ctgctttcct gtctgatctg 120
aacgagttac ctaacctctc cgagcttatc tacaaaagct gaatgatcct tccctcatag 180
agctattgcg agaataagga gatggnggga ggtcacacca tccccaactt accaagggat 240
cttcctctga cagagactga gcaagatcca gctggtctga gctgtgtgga tctcncctcc 300
agctgtgcac ctatntnnta accagacacg tcctccagcc cccaagatat acccaggaat 360
tcgaaaggta aantgaaagt cacaacttcc cagcagctcn caatcaagca cagcaaacac 420
gctgctcccc agcacctcct gcagtccagc cccaccctcc ttgctgctgc gcttagagna 480
gcagcctgag accagacctc caggtctctt tcatccaacc cacctgcctg gcatcctcgg 540
ggttgggggt ctgctatagt cttcaggaag aaagacctgc cactgacata ctgtggga 598

<210> 68
<211> 382
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.14

<220>
<221> misc_feature
<222> 48
<223> n = T or C

<220>
<221> misc_feature
<222> 154
<223> n = A or G

<400> 68
tgagagggac atcctcaagc ccagcagagg gggctgcctg gaggaggngt gcctgccaga 60
gaaaactagc ccggggagat ctgggtggca tcaccggggt gccccaagga ggtaacccca 120
tggaggttac ctgggcaatt cagccacacg cacnaatctc ttccaggctt catcgctagt 180
cagcaggatt ttcagatgca ctgggctaac tttcttctgg aagtattcaa tgacttcttc 240
agtgaagcgt ttcttttcta gttggaaaca aaaaggataa gattggaaga aagtttgcta 300
ccacataaat ggcattgagt ataaggtggt tcggtgttaa tcctcctgaa ccagctgtca 360
catggggtat ttttgatgga gg 382

<210> 69
<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.15

<220>
<221> misc_feature
<222> 205
<223> n = C or G

<220>
<221> misc_feature
<222> 277
<223> n = T or A

<220>
<221> misc_feature
<222> 304
<223> n = T or C

<400> 69
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gcccgggaaa agagtcgacc ccatgctctg ccgcccccgc accccacccc tcgggaatcc 120
ccaccgtctt tcccaatcac cttcttcttc tcaaggcctc ccatcgctcc acgttgagga 180
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ccccgaggac cctccccacc ccacgctgtc tgtttgngcg ggctgcccaa tgagatgcct 300
gtanaagtcc agggaaagat ggggatttcc tcctcaagat ttaaaactat agtctgaaaa 360
aaatcactga gaacactctt tccagatctt tcccgctc 398

<210> 70
<211> 398
<212> DNA
<213> Artificial Sequence

<220>

<223> Amplicon 2.16

<220>
<221> misc_feature
<222> 117
<223> n = C or G

<400> 70
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cctggctaat gccaccctct cttccggctg cctttcagga agaccatgct caatgacctc 180
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ctgcctttcc tcctagaaca cagtggcaca gtgctgggtc ccagttgcta gcagagtctc 300
tctcatcatg ggaagctaga aagaagcttc caggaggaga taaccacggc ctcagggatg 360
ccacatccag agccgccctg tcaggctgag gagatcaa 398

<210> 71
<211> 380
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.17

<220>
<221> misc_feature
<222> 37
<223> n = A or C

<220>
<221> misc_feature
<222> 329
<223> n = C or T

<220>
<221> misc_feature
<222> 350
<223> n = A or G

<400> 71
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gtggtgaaat gtgagcgggc cctgtgaggc cggggctgag ctgtcctctc cccctgcagg 120
tggcccagag tggcgagatc cccccatctt gctgcaactt ccccgtggct gtgtgccggg 180
acaagatgtt tgtattctct gggcaaagcg gagccaaaat aaccaacaac ctcttccagt 240
ttgaattcaa ggacaagacg tgagtactct ggccagtggg gtggagggag gacggtcagt 300
tccctcgaat ccttctgaat atgaagaang cctcttgcac ctggtggccn tggtaaccat 360
ccttgtgagc tctgcaaaca 380

<210> 72
<211> 698
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.18

<220>
<221> misc_feature
<222> 653
<223> n = C or T

<400> 72
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ctcctgcggt tgctgtagcg aagggctgca aactgggtgg tttggagcag cagacaggta 120
ctcacagctt tgagggccaa gagtcccatc taaggtgtca gcaagggcag tgccctcaga 180

gcctcagggg tgggtccttc ctgcctcttc caatttctgg tggtgcccag agttccttga 240
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catctgtgtc ttcacacggc cctcttgtaa ggacaccagt cattgcgtta gggcccaccc 360
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gtcacattcc cagtgctggc agttaggacc tcagtgtatc tttgcgggga cacagttcaa 480
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aaggcatcta ctcttttggc ttgatggaaa ccaacttcta cgaccaggca gaaaaactcg 600
ccaaagaggt aagtgggtcc ttcctaaggt gcctgacccc tcagggagta gcngttggct 660
ggaccagggc atatgagggg caccattcgt gtgtgacc 698

<210> 73
<211> 698
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.19

<220>
<221> misc_feature
<222> 257
<223> n = A or G

<400> 73
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tcacacatta gagttagaag cagaggctca ggctgagccc aggtttatta tccaaaatca 120
aaatgaaatg cagtgattaa aggacacaag gcctcagtgt gcatcattct cattgtggct 180
ttcaggcggc tgtggaagac agggtgggga tggtggcttc gggaggtgag gtgctctggg 240
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gaagtccttg gccttcagaa tgacctcatg ggcctcctgg aagaggtcct cccccactgc 480
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gatgggcagc atctgatttg gggaccacag atctccagga ggtgtttgca cacacactta 660
agcacagtgc catagcccgg tgtggcagca taagcagg 698

<210> 74
<211> 395
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.20

<220>
<221> misc_feature
<222> 98
<223> n = C or G

<220>
<221> misc_feature
<222> 114
<223> n = G or A

<400> 74
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tgcgtcagga gctgccaggc cgagggccag ggcacccnga ggacagctgc tccngcagca 120
ctcacccgat gcatgtcttc atacttgaga aaaagcacgt tcgagtccat gcggtgctcc 180
cagaactcct gcacgtgctc aaaccaggag ccgtagccca ctgcggagac aggggacagg 240
gtgagccaca cggctgggca ggagaagcgc acacatgggg ccatccccac cccacagggc 300
tgccctcctg ccacccagca gccgtgatga ggacatcgtg atccctgcgg acaagtctgg 360
caaaggcccc cgaggcactc acgtcttgag ccatc 395

<210> 75

<211> 383
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.21

<220>
<221> misc_feature
<222> 21
<223> n = C or T

<220>
<221> misc_feature
<222> 61
<223> n = A or G

<220>
<221> misc_feature
<222> 83, 84, 85, 86
<223> n = C or deletion

<400> 75
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ngagactaac aagaagccct ggnnnnagag ggcaggaaca ggtggacgaa caaccagatg 120
agagaacgta ccaggcatgc aagctagacc caggaatcaa cgggctgagg cttagcgtcc 180
cctacggcgt ccaccagcct gaccgcgggc ctgctgggcc cgggggggagg ggccttcctg 240
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caggacagca caggtagcac caa 383

<210> 76
<211> 385
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.22

<400> 76
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ccctgggtgt ccatggccct tgcagatact tgctggtcag gaatgagcct tctgaggcaa 120
gactgctgga ttgtccaggc agggctattg atgccagccc cttaacttaa ttctgcccag 180
acaagaagat gtttgaggtg aagcggcggg agcagctgtt ggcactgaag aacctggcac 240
agctgaacga catccaccag cagtacaaga tccttgatgt catgctcaag gggctcttta 300
aggtgtgtgc aggcaggggg cagctcatgg caggtccagt ctttgatcta ggcactgatg 360
ggtaaacagg agttccctaa cgggt 385

<210> 77
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.23

<400> 77
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cagccctggc gggattccct caggtgctgg aggactcccg gacagtgctc accgctgctg 180
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ctgccccgcc ctgtcctccg caccacccga tcttctctag ctgctccttc tctcctgttc 300
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<210> 78

<211> 355
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.24

<220>
<221> misc_feature
<222> 183, 256, 284, 327
<223> n = C or T

<400> 78
gcagagatca gagcatcgaa taatggttgc taaaatatct tggaaaagga aacagtccta 60
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ctacctgctg gctgcttcct cggctcctcg aacagatcag ccgagcttat ggaggaactt 180
gcngacagcc tctctaggcg ggccctggtc tcatactaga gaagacaagg aaaaggaaat 240
gttaggctcc aaagantgtg ggcagttttg caaaaagaat cacngaagag ctgtcatttg 300
aaagtgtttg acccccaggc tctttcnttc caacagttac tgaatgccac tgcca 355

<210> 79
<211> 399
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.25

<220>
<221> misc_feature
<222> 279
<223> n = A or G

<400> 79
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agaggagagg cttaattcct ttttgttttg aacttagatc aaattactca ttaaacaaga 180
tgatgacctt gaagttcccg cctatgaaga catcttcagg gatgaagagg aggatgaaga 240
gcattcagga aatgacagtg atgggtcaga gccttctgng aagcgcacac ggttagaaga 300
ggtgagtttg ggtctctcac agctatccca gaggaacttg cactcccaga ggtcggaggt 360
catcctgaag cctgccaggc caaggtgtac tgagggcag 399

<210> 80
<211> 379
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.26

<220>
<221> misc_feature
<222> 44
<223> n = C or T

<400> 80
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gcaaggagcg ggtgtgaatg ctccacggcc ccttagctac ctgtgacacc ttgtgcccac 180
aggttccgta gtaagatgga agctgctggc ttcactatct cgggagccag tcaccccatc 240
tgccctgtga tgctgggtga tgcccggctg gcctctcgca tggcggatga catgctgaag 300
agaggtaagg gtgctgagac aagggaactg gtggtgggtc ctgagagaag agaaagggaa 360
acccctagac tgtgaccca 379

<210> 81

<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.27

<220>
<221> misc_feature
<222> 346
<223> n = C or G

<400> 81
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gctcttctcg agccttctta actcgttcta ttctttcttt gatctctcgc tcttcacgtt 180
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aaaataagct tgctccaaaa gctgaataac atcaacacaa atattctttg tagagagatg 300
tttaattcaa catgcagttc agaaaaatga cagatttgtc ttgtanaaaa agacctaaca 360
caagctaagc ctttaagaaa accaacctca actgcatg 398

<210> 82
<211> 371
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.28

<221> misc_feature
<222> 291
<223> n = A or G

<400> 82
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gagggcggcc cattcccgga gagagcttca gtacctgtcc tgaagctgga cacggtggcc 180
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cgaaacaaaa tgtaaaatcc acaacacagg tgttagctgc agggcctcac natggactat 300
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aaacgtgaca t 371

<210> 83
<211> 395
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.29

<220>
<221> misc_feature
<222> 260
<223> n = C or G

<400> 83
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cccgccatgc gtccccattc cgcatcactc ggtctctccc acagggatga cggaacacac 180
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ggatttgcga tgggcctgcg gggaacatct agatc 395

<210> 84

<211> 328
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplicon 2.30

<220>
<221> misc_feature
<222> 257
<223> n = C or T

<400> 84
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gccatggtgc acatcccagt ccacgacgag gatcctgggt acagacagcg ctggtggcaa 180
aggggcaggg cctcccacct ccaggagccc ggccagggat gggaaggtgc tggctgggtt 240
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tggcacacac ctgtgtagcc cgtgtttc 328

<210> 85
<211> 483
<212> DNA
<213> Mycobacterium chelonae

<400> 85
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gatgagcccg cggcctatca gcttgttggt ggggtaatgg cccaccaagg cgacgacggg 180
tagccggcct gagagggtga ccggccacac tgggactgag atacggccca gactcctacg 240
ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
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agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
aaa 483